

QUALITY REPORT

SUMMARY

Dataset name: Allianz Nymphenburger Str

Recorded at: 07/17/2023 07:29 AM UTC

Duration: 62:50 mins

Device serial: G11-0019

System software: 2.22.0-b32851-c4ab047d-bionic-releas
e-2.22.0

Processed at: 05/23/2024 03:40 AM UTC

Scanned area: 12412 m²

Billed area: 8332 m²

Panoramas: 267

Control points: 22

PROCESSING SETTINGS

Point cloud resolution: 5 mm

Colorized: Yes

Processing preset: Outdoors

Person blurring: Yes

Floor filling: Yes

Panorama embedded e57: Yes

Surveyed control points: Yes

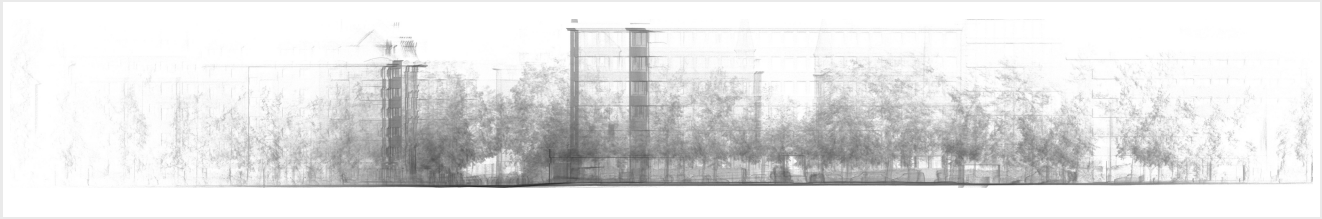
Coordinate system: EPSG:31468

XRAY MAPS

Floor plans that provide detailed insights into environments to visualize the structure and layout of buildings, including the distribution of rooms, corridors, and other spaces.



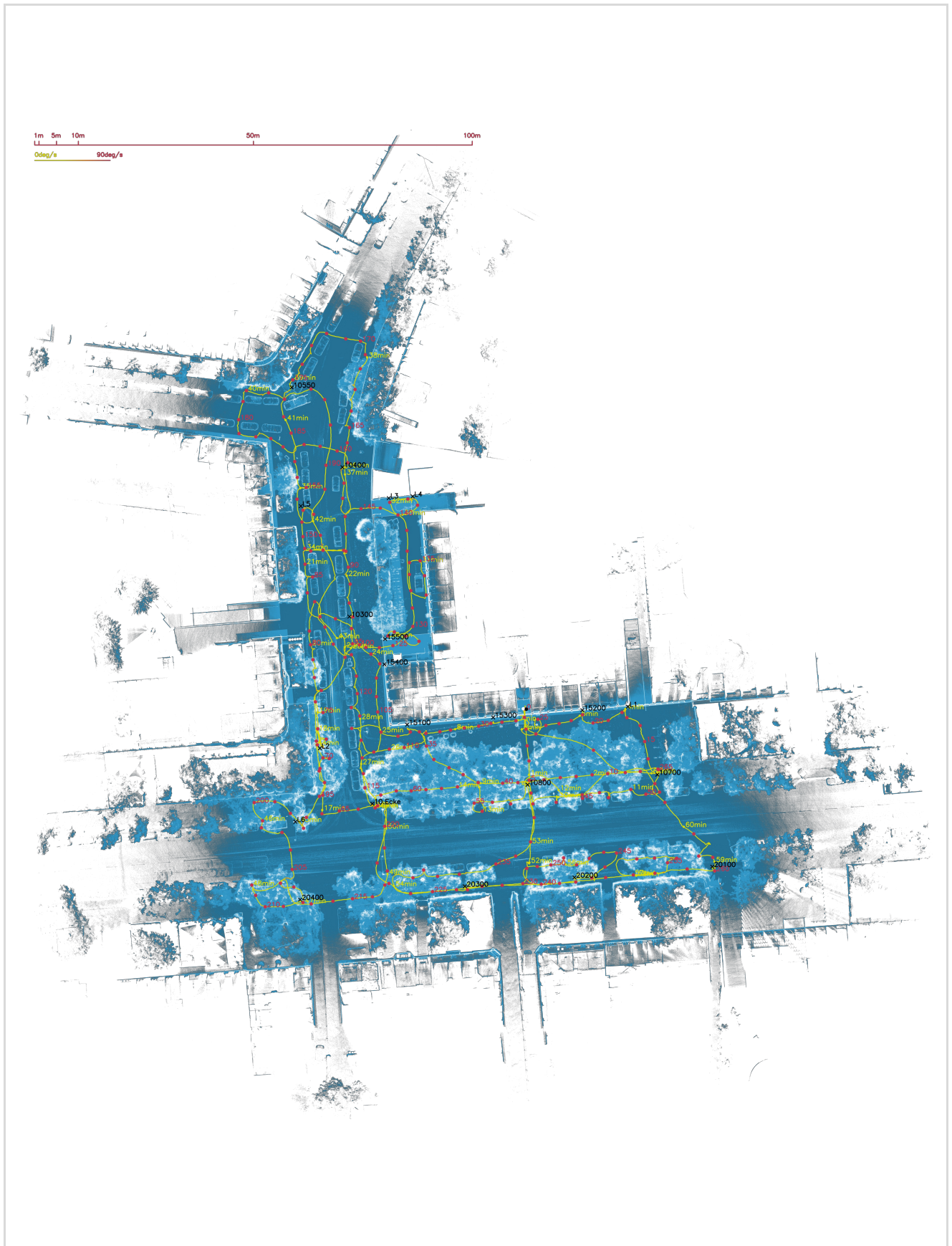
Top view



Side views

QUALITY MAPS

The quality map illustrates the mapping quality by displaying the trajectory estimate, capture locations, and representing point cloud density through various shades of blue.



After processing

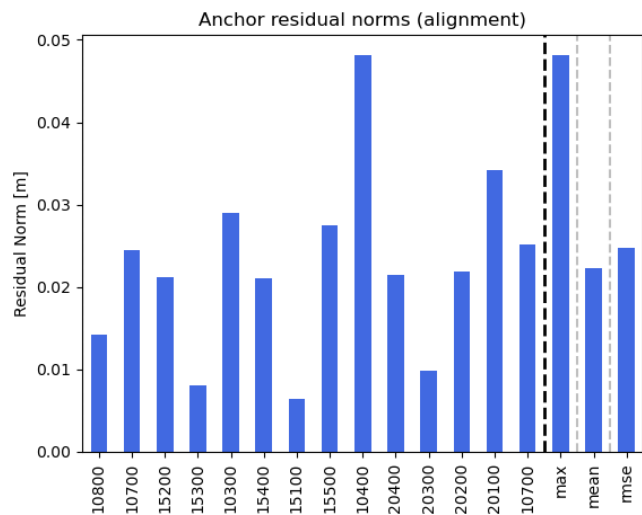
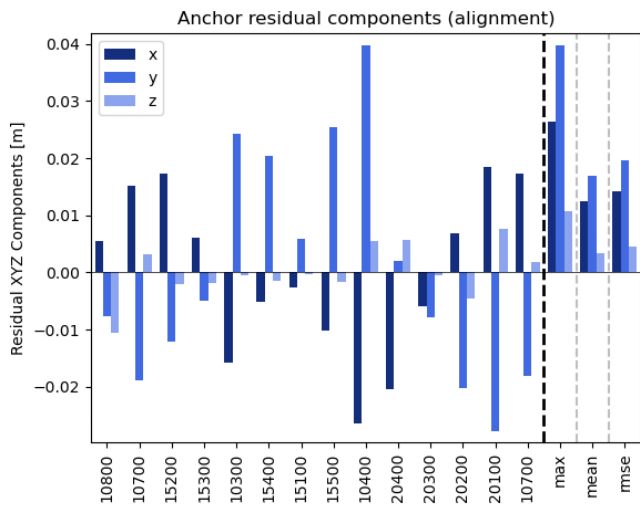
CONTROL POINT DETAILS

Alignment residuals

Alignment residuals refer to the discrepancies between estimated (i.e. computed) and actual (i.e. survey) control point positions (after an initial, rigid alignment of the dataset into the coordinate system of the control points). These indicate remaining distortions and in particular SLAM drift that can accumulate esp. when no loop closures are made.

Control Point	Delta X [mm]	Delta Y [mm]	Delta Z [mm]
10800	5.46	-7.66	-10.64
10700	15.2	-18.99	3.07
15200	17.27	-12.16	-2.1
15300	6.12	-4.95	-1.96
10300	-15.82	24.31	-0.5
15400	-5.1	20.31	-1.43
15100	-2.56	5.89	-0.3
15500	-10.21	25.41	-1.75
10400	-26.46	39.85	5.55
20400	-20.56	2.09	5.66
20300	-5.91	-7.91	-0.59
20200	6.88	-20.33	-4.53
20100	18.41	-27.75	7.65
10700	17.27	-18.11	1.87

000 Control point used Yellow $\geq \pm 30\text{mm}$



Optimization residuals

Optimization residuals denote the deviation in the trajectory of estimated vs. surveyed control point positions after all optimization steps inside SLAM have completed.

Control Point	Delta X [mm]	Delta Y [mm]	Delta Z [mm]
10800	-0.94	0.39	-1.1
10700	0.71	-0.02	0.24
15200	1.33	-0.19	0.12
15300	-0.5	0.69	0.24
10300	-0.09	1.2	-0.31
15400	1.1	0.11	-0.29
15100	-1.14	0.81	0.17
15500	0.45	0.26	-0.03
10400	0.72	1.06	-0.71
20400	-0.54	-1.21	-0.35
20300	-1.29	0.15	0.04
20200	0.77	0.46	-0.33
20100	1.24	0.04	-0.13
10700	0.27	-0.46	-0.04

000 Control point used **Green** $\leq \pm 5\text{mm}$ $\pm 5\text{mm} >$ **Yellow** $< \pm 10\text{mm}$ **Red** $\geq \pm 10\text{mm}$

